

WHAT IS CLAIMED IS:

1. A method for storing digital data from a storage device communicating through a digital interface with a digital tape recording medium, comprising:

(a) searching for a recordable location in the digital tape recording medium when a data store is requested from said storage device communicating through the digital interface;

(b) recording data streams received through the digital interface in the location discovered in (a), wherein the data streams have been converted from the data of a file which is selected in said storage device; and

(c) creating management information regarding the data streams recorded.

2. A method set forth in claim 1, further comprising transmitting information on the characteristics and recording status of the tape recording medium to the storage device before the process recited in (a).

3. A method set forth in claim 1, wherein the data streams are transport streams of MPEG format.

4. A method set forth in claim 1, wherein the management information is repeatedly recorded in the tape recording medium.

5. A method set forth in claim 1, wherein the management information includes the file information received together with the data streams from said other device.

6. A method set forth in claim 1, wherein the management information includes information on the section of the tape recording medium in which the received data streams are recorded.

7. A method set forth in claim 1, wherein (b) and (c) record the received data in a main code area and the management information in a subcode area of the tape recording medium wherein the main code and the subcode area satisfy a DVHS standard.

8. A method for retrieving digital data from a digital tape recording medium and sending the reproduced data to a storage device communicating through a digital interface in a tape recording medium, comprising:

(a) reproducing management information recorded in the tape recording medium when a retrieving request for a given file is received from said storage device;

(b) identifying a recording location of the given file based upon the reproduced management information;

(c) searching for the identified location in the tape recording medium and reproducing recorded data from the identified location; and

5 (d) converting the reproduced data into transport streams and transmitting them to said storage device.

9. A method set forth in claim 8, further comprising a step wherein the storage device extracts data of the given file from the transport streams transmitted in (d), and stores the extracted data in a storing means as a file.

10. A method set forth in claim 8, further comprising the process in which said storage device extracts data of the given file from the transport streams transmitted in said step (d), and decodes the extracted data to present video and/or audio.

11. A method set forth in claim 8, wherein the retrieving request includes a file name of the given file and an identification code of file set to which the given file belongs.

12. A method set forth in claim 8, wherein the retrieving request includes a file name and a directory name of the given file.

13. A method set forth in claim 8, further comprising reproducing the tape recording medium according to a request of information on recorded files, detecting management information on the recorded files, and transmitting the detected information to said other device before said step (a).

14. A method set forth in claim 8, wherein said step (a) obtains the management information on recorded files by reproducing a sub-code area of the tape recording medium in which data are recorded in a DVHS standard.

15. A method for storing digital data in a digital tape recorder communicating through a digital interface, comprising:

(a) displaying a file list on a screen for a file to store in the digital tape recorder to be selected;

(b) requesting the digital tape recorder to prepare storing location for a selected file;

(c) converting the information on the selected file and data of the selected file into transport stream packets and transmitting the packets to the digital tape recorder; and

(d) creating file management information including the information on recorded section received from the digital tape recorder after all the data of the selected file are transmitted.

